

Environmental Effects

Educational Media Foundation (“EMF”) certifies that WKQW-FM complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

The RF worksheet in the Instructions to form 303-S was unusable to determine compliance for this facility because the facility is co-located with other AM and FM broadcast facilities. Therefore, EMF used RFHAZ, a commercial software package created by V-Soft Communications, to determine compliance for this site.

Co-located AM station WKQW-AM Oil City, PA operates on 1120kHz at 1.0 kW maximum power via a single tower that is 102.5° (0.28λ) in height. The protective fence installed around the tower is located farther from the tower than the one-meter distance required by Table 2 of OET-65, Supplement A.

Utilizing the Shively “6800 series – Type 6” antenna for calculations, WKQW-FM’s maximum contribution to the site is 3.4μW/cm², which is 1.7% of the worst-case uncontrolled (public) exposure limit of 200μW/cm².

This value does not exceed the 5% “threshold of responsibility” specified in 47 C.F.R. 1.1307(b) and 1.1307(b) (3). Therefore, WKQW-FM is “categorically excluded” from providing an Environmental Assessment.

Based on this evaluation WKQW-FM is categorically excluded and co-located WKQW-AM is adequately fenced. Therefore, WKQW-FM fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.